

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/03

Date Received: 10/28/03

Project: Metro K.C. Grab, PO# M92037, F&BI 310273

Date Extracted: 10/30/03

Date Analyzed: 10/30/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M92032 310273-01	0.40	0.59	0.50	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

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### QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 310273-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.40	0.41	2	0-20
Copper	mg/L (ppm)	0.59	0.62	5	0-20
Nickel	mg/L (ppm)	0.50	0.58	15	0-20
Zinc	mg/L (ppm)	<0.05	0.23	nm	0-20

Laboratory Code: 310273-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.40	100	80-120
Copper	mg/L (ppm)	2	0.59	106	80-120
Nickel	mg/L (ppm)	4	0.50	99	80-120
Zinc	mg/L (ppm)	2	<0.05	115	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	111	107	80-120	4
Copper	mg/L (ppm)	2	113	111	80-120	2
Nickel	mg/L (ppm)	4	107	105	80-120	2
Zinc	mg/L (ppm)	2	111	112	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

310273

## SAMPLE CHAIN OF CUSTODY

CM 10/28/03

AI 1

AKC-0008609

Send Report To

G. Thompson

Company

ALASKAN Copper

Address

628 S. Harbor

City, State, ZIP

Seattle WA 98134

Phone #

206 382-8329

Fax #

SAMPLERS (signature)

PROJECT NAME/NO.

METRO K.C. Gust

PO #

M 92037

REMARKS

24 hrs Please call with results

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH 24 hrs Please

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes			
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS								
M92037	01	10/28/03	11:45	H2O	1														

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Nhan Phan

COMPANY

ACW

F&amp;BI

DATE

10/28/03

10/28/03

TIME

1:50 PM

1:30 PM

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
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FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

November 3, 2003

**DUPLICATE COPY**

**INVOICE # 03ACU1103-6**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro K.C. Grab, PO# M92037, F&BI 310273 - Results of testing  
requested by Gerry Thompson for material submitted on October 28, 2003.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
50% surcharge for 24 hour rush	<u>40.00</u>
Amount Due .....	\$ 120.00

FEDERAL TAX ID #(b)(6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

November 3, 2003

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

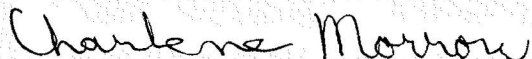
Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 28, 2003 from the Metro K.C. Grab, PO# M92037, F&BI 310273 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow  
Chemist

Enclosures  
ACU1103R.DOC